

REMARKS

This Amendment is submitted in response to the Office Action mailed on September 20, 2002. Claims 1, 3, 12 and 19 have been amended, and claims 1-21 remain in the present application. In view of the foregoing amendments, as well as the following remarks, Applicants respectfully submit that this application is in complete condition for allowance and request reconsideration of the application in this regard.

Applicants have amended claims 1, 3 and 19 to correct obvious clerical errors and respectfully submit that these amendments are not made for any reason related to patentability of the claims. Claim 12 has been amended to a scope contemplated by the present invention.

Claims 1-21 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of copending application Serial No. 09/299,850. Applicants have filed herewith a Terminal Disclaimer to obviate the obviousness-type double patent rejection and respectfully request that the rejection be withdrawn.

With respect to substantive rejections of the claims over cited prior art, claims 1, 3, 5-11 and 18 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Yamasa et al., U.S. Patent No. 5,936,591, and claims 2, 4, 12-17 and 19-21 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Yasama et al. in view of Carloni et al., U.S. Patent No. 5,815,115. Applicants respectfully traverse these rejections for the reasons set forth below and respectfully request that the rejections be withdrawn.

In particular, the Examiner will note that each of independent claims 1, 12 and 18 recites a plurality of power amplifiers, with each power amplifier comprising a linear power amplifier which is mounted closely adjacent to an associated antenna element such that no appreciable power loss occurs between the power amplifier and the associated antenna element.

Applicants respectfully submit that the primary Yamasa et al. reference is completely silent with respect to the power amplifiers 21-2 through 21-5 and 22-2 through 22-13 as comprising linear power amplifiers as claimed by Applicants which are mounted closely adjacent to an associated antenna element. Accordingly, Applicants respectfully submit that the rejections of independent claims 1, 12 and 18 are improper and should be withdrawn.

Moreover, as claims 2-11, 13-17 and 19-21 depend from allowable independent claims 1, 12 and 18, respectively, and further as each of these claims recites a combination of elements not taught or suggested by the prior art of record, Applicants respectfully submit that these claims are allowable as well.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned **“Version with markings to show changes made”**.

Conclusion

In view of the foregoing response including the amendments and remarks, this application is submitted to be in complete condition for allowance and early notice

to this affect is earnestly solicited. If there is any issue that remains which may be resolved by telephone conference, the Examiner is invited to contact the undersigned in order to resolve the same and expedite the allowance of this application.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

Claims 1, 3, 12 and 19 have been amended as follows:

1. (AMENDED) A distributed antenna array comprising:

a plurality of antenna elements, and

a plurality of power amplifiers, each power amplifier being operatively coupled with one of said antenna elements and mounted closely adjacent to the associated antenna element, such that no appreciable power loss occurs between the power amplifier and the associated antenna element;

each said power amplifier comprising a relatively low power, linear power amplifier.

3. (AMENDED) The antenna array of claim 1 wherein each antenna element is a monopole.

12. (AMENDED) An antenna system installation comprising a tower/support structure, and an antenna structure mounted [at the top of] on said tower/support structure, said antenna structure comprising:

a plurality of antenna elements; and

a plurality of power amplifiers, each power amplifier being operatively coupled with one of said antenna elements and mounted closely adjacent to the

associated antenna element, such that no appreciable power loss occurs between the power amplifier and the associated antenna element;

each said power amplifier comprising a relatively low power, linear power amplifier.

19. (AMENDED) The installation of claim [20] 18 and further including:

a DC bias tee mounted operatively coupled with said antenna structure; a coaxial line operatively coupled with said DC bias tee and running to a second DC bias tee, said second DC bias tee being operatively coupled to a DC supply and an RF input/output from a transmitter/receiver.